

Claims

- [c1] A storage rack, comprising: a vertical support column; a support arm formed integrally with said vertical support column; said support arm extending outwardly and downwardly from said vertical support column; a barrier arm having a proximal end pivotally mounted to a distal free end of said support arm; a support strap extending between a proximal end of said support arm and a free distal end of said barrier arm in vertically spaced relation above said support arm; said barrier arm being disposed in a substantially horizontal disposition when said support strap is in a position of repose; and said barrier arm being disposed in a substantially vertical position when said support strap is under tension; said barrier arm being in said substantially vertical position to prevent said elongate object from sliding from or rolling off said support arm when an elongate object is supported by said support arm, said support strap being under tension when said elongate object is so supported; and said barrier arm being in said substantially horizontal position to facilitate removal of said elongate object from said storage rack when said elongate object is lifted from said support arm, said lifting removing said tension from said support strap.
- [c2] The storage rack of claim 1, further comprising: said vertical support column and said support arm collectively defining a module; a first module being stacked in surmounting relation to a second module so that said first and second modules collectively form a first storage rack column; a third module being stacked in surmounting relation to a fourth module so that said third and fourth modules collectively form a second storage rack column; said first and second storage rack columns being disposed in cooperative relation to one another to collectively form said storage rack.

- [c3] The storage rack of claim 1, further comprising: said support arm being disposed downwardly relative to a horizontal plane by about thirty degrees.
- [c4] The storage rack of claim 1, further comprising: said support arm including an upper support wall, a lower support wall disposed in parallel relation to said upper support wall, and a truss assembly including a plurality of horizontally and vertically disposed truss members that maintain said upper support wall and said lower support wall in said parallel relation to one another.
- [c5] The storage rack of claim 1, further comprising: a top connector disposed in surmounting relation to and formed integrally with said vertical support column; said top connector having a width narrower than a width of said vertical support column; and said top connector being centered with respect to said width of said vertical support column.
- [c6] The storage rack of claim 5, further comprising: an upper wall mount adapted to be mounted to a vertical wall of a room; said upper wall mount including a pair of laterally spaced apart wall members adapted to slideably receive said top connector therebetween; said top connector and said upper wall mount being adapted to receive at least one fastener that interconnects said top connector and said upper wall mount to one another.
- [c7] The storage rack of claim 1, further comprising: a bottom connector disposed at the bottom of and formed integrally with said vertical support column; said bottom connector including two walls disposed in laterally spaced relation to one another.
- [c8] The storage rack of claim 7, further comprising: a lower wall mount adapted to be mounted to a vertical wall of a room; said lower wall mount including a flat back wall adapted to abut said vertical wall of a room; a central wall formed integrally with said back wall and extending therefrom in normal relation

thereto; said two walls of said bottom connector being adapted to slideably receive said central wall of said lower wall mount therebetween; and said bottom connector and said lower wall mount being adapted to receive at least one fastener that interconnects said bottom connector and said lower wall mount to one another.

[c9] The storage rack of claim 5, further comprising: a connector hump formed on a front side of said top connector; said connector hump including a narrow arcuate strip having a width substantially equal to said width of said top connector; said connector hump further including a straight wall having a width substantially equal to a width of said vertical support column, said straight wall formed integrally with a lowermost end of said narrow arcuate strip; said connector hump further including a horizontally-disposed stand-off extending from about mid-length of said top connector to a juncture of said narrow arcuate strip and said straight wall; an uppermost end of said narrow arcuate strip being formed integrally with an uppermost end of said top connector; and a lowermost end of said straight wall being formed integrally with a lowermost end of said top connector.

[c10] The storage rack of claim 9, further comprising: a vertical support column hump formed on a front side of said vertical support column; said vertical support column hump including a top wide arcuate wall, concave relative to said front side, having a top end formed integrally with said straight wall of said connector hump; said vertical support column hump including a middle wide arcuate wall, convex relative to said front side, having a top end formed integrally with a lower end of said top wide arcuate wall; and said vertical support column hump including a bottom wide arcuate wall, concave relative to said front side, having a top end formed integrally with a lower end of said middle wide arcuate wall and having a lower end formed integrally with said top wall of said support arm.

- [c11] The storage rack of claim 10, further comprising: an opening formed in said middle wide arcuate wall; a first mounting means formed in said middle wide arcuate wall on a first side of said opening; a second mounting formed in said middle wide arcuate wall on a second side of said opening; at least one peg having opposite ends respectively secured to said first and second mounting means; said support strap having a radially inner end adjustably secured to said at least one peg.
- [c12] The storage rack of claim 6, further comprising: a quarter-circle wall extending from each wall of said pair of laterally spaced apart walls of said upper wall mount; each quarter-circle being curved to match the curvature of said narrow arcuate wall.
- [c13] The storage rack of claim 7, further comprising: a horizontally-disposed brace extending from a mid-point of said pair of laterally spaced apart bottom connector walls to said lower support wall.
- [c14] The storage rack of claim 13, further comprising: a first arcuate support arm interconnecting said lower support wall to said vertical support column; a second arcuate support arm interconnecting said vertical support column to said horizontally-disposed brace.